

LEGEND

L1-01 SMOKE DETECTOR, ADDRESS AS NOTED

L1-02 DSD DUCT SMOKE DETECTOR, ADDRESS AS NOTED

L1-03 FIRE CALL BOX, ADDRESS AS NOTED

L4-01 HEAT DETECTOR, ADDRESS AS NOTED

FACU FIRE ALARM SYSTEM CONTROL UNIT (MXL) & HSSD POWER SUPPLIES

HSSD IEI VESDA HSSD DETECTOR

AV-01 15 cd STROBE, NUMBER & MINIMUM CANDELA RATING

AV-02 110 cd HORN/STROBE, NUMBER AND MINIMUM CANDELA

L1-05 VS SPRINKLER VALVE SUPERVISORY SWITCH, ADDRESS AS NOTED

L1-06 WF SPRINKLER WATERFLOW SWITCH, ADDRESS AS NOTED

TRI INTELLIGENT INTERFACE MODULE (TRI-R UNLESS NOTED OTHERWISE)

EOL END-OF-LINE DEVICE

FSD COMBINATION SMOKE FIRE DAMPER. SEE HVAC PLANS FOR DUCT AND DAMPER LOCATIONS.

HSSD SAMPLE PIPING AND SAMPLE PORT (BELOW CEILING)

HSSD SAMPLE PIPING AND SAMPLE PORT (ABOVE CEILING)

FIRE ALARM CONDUIT (3/4-INCH). SEE NOTES PROVIDED ON EACH PLAN FOR CIRCUITS.

L1 - 1 PAIR; SLC/ALD LOOP (L1) (SEE RACEWAY NOTES ON EACH FLOOR PLAN)

AV1 - 1 PAIR #14; NOTIFICATION APPLIANCE CIRCUIT (SEE RACEWAY NOTES ON EACH FLOOR PLAN)

GENERAL NOTES

1. THIS DESIGN PROVIDES A FIRE DETECTION AND FIRE ALARM SYSTEM FOR BUILDING 74. THE DESIGN PROVIDES A NEW SIEMENS MXL FIRE ALARM CONTROL UNIT AS THE BUILDING'S CONTROL UNIT (NO EQUAL WILL BE ACCEPTED), PHOTOELECTRIC SMOKE DETECTORS (FOR PROTECTION OF THE AREAS SHOWN IN THE DRAWINGS), DUCT-TYPE SMOKE DETECTORS (FOR BUILDING HVAC FAN SHUTDOWN), WATERFLOW AND VALVE POSITION SUPERVISION, MANUAL FIRE ALARM PULL STATIONS, AUDIBLE/VISUAL, AND VISUAL NOTIFICATION APPLIANCES. ALL INITIATING DEVICES & NOTIFICATION APPLIANCES SHALL BE COMPATIBLE WITH THE NEW SIEMENS FIRE ALARM CONTROL UNIT (FACU). THE DEVICES AND APPLIANCES SHALL BE PROVIDED AND INSTALLED AS INDICATED IN THE DRAWINGS, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72, NATIONAL FIRE ALARM CODE, AND THE SYSTEM SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LISTINGS AND APPROVALS.

2. ALL FIRE ALARM SYSTEM RACEWAY (E.G. CONDUIT) SHALL BE PROVIDED IN ACCORDANCE WITH THE UNIVERSITY'S STANDARDS AND THESE CONTRACT DOCUMENTS. ALL CONDUIT SHALL BE ROUTED CONCEALED IN FINISHED AREAS, UNLESS ACCEPTED BY THE UNIVERSITY. CONDUIT ROUTED ABOVE DROP CEILING SYSTEMS SHALL BE INSTALLED AT A HEIGHT PERMITTING THE EASY REMOVAL OF THE CEILING TILE (E.G. CONDUIT SHALL NOT BE INSTALLED ABOVE THE TILE TO PREVENT EASY LIFTING FOR ACCESS). EXPOSED CONDUIT IN FINISHED AREAS SHALL BE PAINTED. CONDUIT IN UNFINISHED AREAS MAY BE UNPAINTED.

3. THESE DRAWINGS ARE DIAGRAMMATIC IN THAT EXACT DEVICE, APPLIANCE, AND EQUIPMENT LOCATIONS, CONDUIT ROUTING, CONDUIT SUPPORT AND CONSTRUCTION DETAILS ARE TO BE DEVELOPED BY THE SUBCONTRACTOR.

4. THE RISER DIAGRAMS ARE DIAGRAMMATIC AND REPRESENT FEASIBLE CONNECTIVITY. THE SUBCONTRACTOR MAY MODIFY THE CONNECTIVITY TO SUIT FIELD CONDITIONS PROVIDED THAT THE NOTIFICATION APPLIANCE AND SIGNALING LINE CIRCUIT LOADS DO NOT EXCEED THOSE SPECIFIED IN THE LISTINGS AND APPROVALS FOR EACH MANUFACTURER'S PIECE OF EQUIPMENT.

5. THE FACU SHALL BE LOCATED AS SHOWN IN THE DRAWING (1ST FLOOR ELECTRICAL ROOM). THE MXL SHALL BE INSTALLED AT A HEIGHT SUCH THAT THEIR VISUAL DISPLAYS ARE AT A HEIGHT OF 5'-6". THE MXL SHALL COMMUNICATE TO AN EXISTING MXL CONTROL UNIT LOCATED IN BUILDING 84 VIA A SIEMENS NET 7 NETWORK INTERFACE CARD IN THE EXISTING MXL CONTROL UNIT. THE SUBCONTRACTOR SHALL PROVIDE THE NECESSARY AND APPROPRIATE COMMUNICATION CABLEING BETWEEN THE NEW MXL CONTROL UNIT AND THE EXISTING MXL CONTROL UNIT IN BUILDING 84. THE UNIVERSITY WILL PROVIDE FOR THE CONNECTION OF THE NEW DATA CABLES TO THE EXISTING MXL CONTROL UNIT.

6. ANY FIRE ALARM SIGNAL SHALL CAUSE ALL AUDIBLE NOTIFICATION APPLIANCES TO OPERATE CONTINUOUSLY IN ACCORDANCE WITH THE UNIVERSITY'S REQUIREMENTS. ANY FIRE ALARM SIGNAL SHALL ALSO CAUSE AN ALARM SIGNAL TO BE TRANSMITTED TO THE UNIVERSITY'S RECEIVER.

7. ANY SUPERVISORY OR TROUBLE SIGNAL SHALL CAUSE A LOCAL ALARM AT THE FACU TO OPERATE. ANY SUPERVISORY OR TROUBLE SIGNAL SHALL ALSO CAUSE A SUPERVISORY/TROUBLE SIGNAL TO BE TRANSMITTED TO THE UNIVERSITY'S RECEIVER VIA THE MXL IN BUILDING 84.

8. ALL WIRING SHALL BE INSTALLED IN COMPLIANCE WITH THE CALIFORNIA ELECTRICAL CODE (SPECIFICALLY ARTICLE 760) AND NFPA 72, NATIONAL FIRE ALARM CODE.

9. NO WIRING SHALL BE EXPOSED. CONDUIT SHALL BE USED. WIRING WITHIN ENCLOSURES SHALL BE NEATLY BUNDLED AND STRAPPED OR FASTENED TO THE ENCLOSURE OR ENCLOSURE DOORS.

10. IN SUB-PANELS OR ENCLOSURE SURFACES, WIRING CONNECTED TO HINGED DOORS SHALL BE BUNDLED AND SLEEVED IN A FLEXIBLE PLASTIC TUBING TO PERMIT OPENING AND CLOSING OF THE DOOR WITHOUT STRAINING WIRING AND WITHOUT ABRASION OF WIRE INSULATION.

11. NO CABLE SHALL BE INSTALLED IN VENTILATION DUCTS OR PLENUMS WITHOUT SPECIFIC PRIOR WRITTEN APPROVAL OF THE UNIVERSITY'S REPRESENTATIVE.

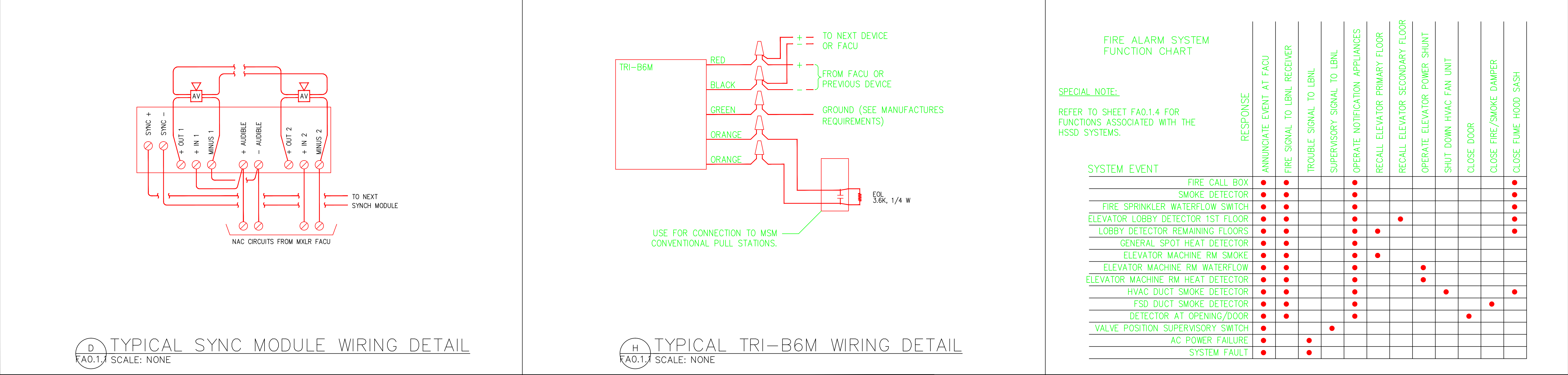
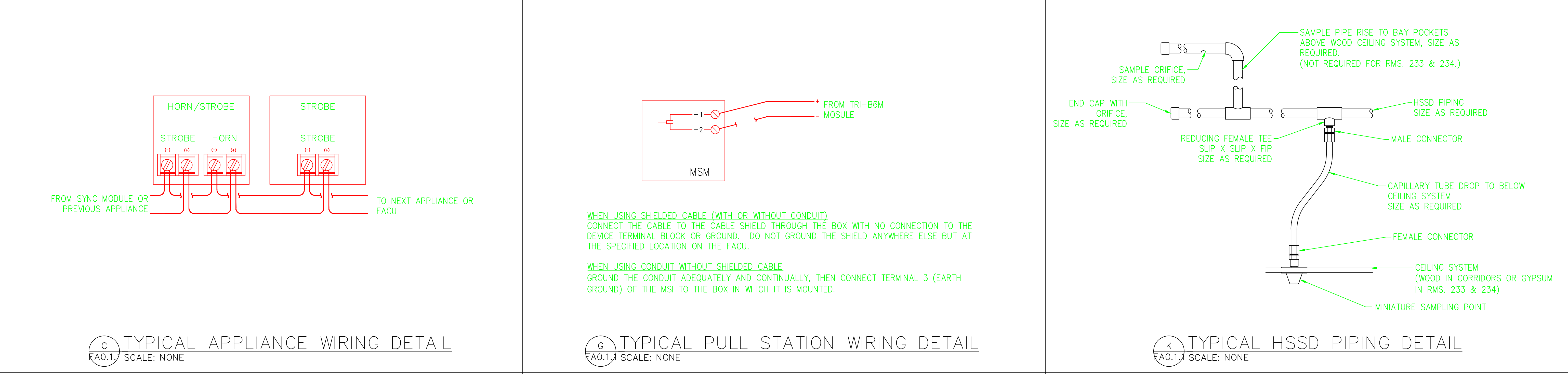
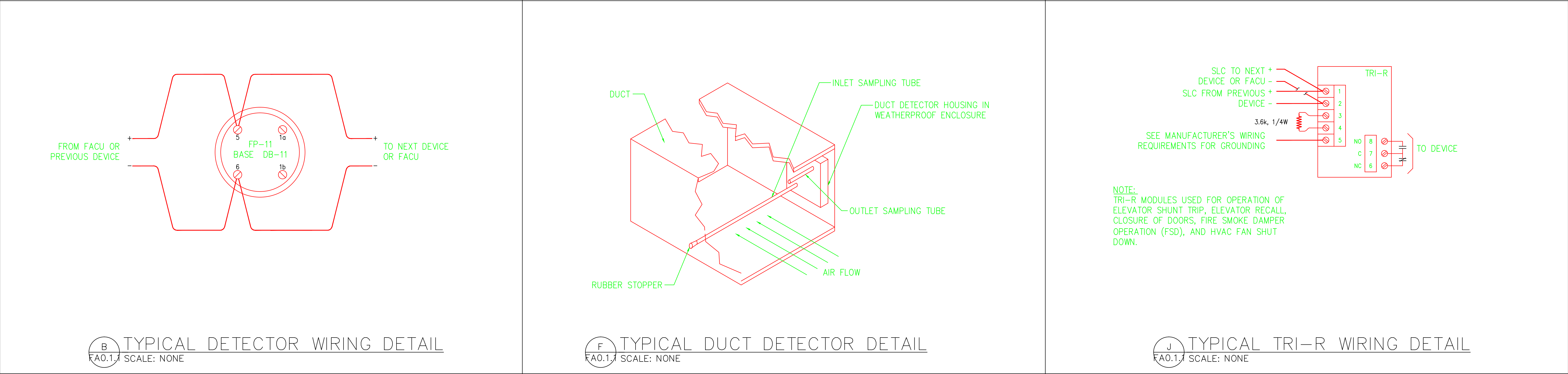
12. NO CLASS 2 OR 3 SIGNAL WIRING SHALL BE INSTALLED IN CONDUIT WITH LIGHT, POWER, OR CLASS 1 SIGNAL WIRING.

13. ALL WIRING, EXCEPT WIRING INSIDE ENCLOSURES, SHALL BE CABLED WITH A THERMOPLASTIC INSULATION JACKET, WITH A VOLTAGE RATING EXCEEDING THE VOLTAGE OF ANY POWER IN PROXIMITY TO THE WIRING.

14. ALL SIGNAL WIRING SHALL BE OPERATED AT NOT MORE THAN 30 VOLTS, AC OR DC.

15. THE DESIGN SHOWS THE NEW MXL POWER SUPPLY AS THE SOURCE OF POWER FOR ALL OCCUPANT NOTIFICATION APPLIANCES. IF ADDITIONAL, OR REMOTE, POWER SUPPLIES ARE NECESSARY (OR DESIRED BY THE SUBCONTRACTOR TO ACCOMMODATE LONG RUNS) TO ADEQUATELY POWER ALL NOTIFICATION APPLIANCES, THEY SHALL BE PROVIDED AND INSTALLED BY THE SUBCONTRACTOR AT NO ADDITIONAL COST TO THE UNIVERSITY. ANY NEW OR SECOND POWER SUPPLY MUST BE IN ACCORDANCE WITH THE MANUFACTURER'S LISTINGS AND APPROVALS AND MUST BE APPROVED BY THE UNIVERSITY.

16. ANY FIRE ALARM DEVICE LOCATED IN A CONCEALED LOCATION SHALL BE PROVIDED WITH A REMOTE ALARM INDICATOR. THE REMOTE ALARM INDICATOR SHALL BE LOCATED IN A READILY VISIBLE LOCATION IN THE VICINITY OF THE CONCEALED DEVICE.



SPECIAL DEMOLITION NOTES

1. THE EXISTING FIRE ALARM SYSTEM PROVIDING PROTECTION FOR THE BUILDING HAS BEEN PARTIALLY DEMOLISHED IN A PREVIOUS WORK SCOPE. UPON SUBSTANTIAL COMPLETION OF THE NEW (REPLACEMENT) FIRE ALARM SYSTEM, WITH THE EXCEPTION OF THE EXISTING SPOT HEAT DETECTORS, THE REMAINING ELEMENTS OF THE EXISTING SYSTEM SHALL BE REMOVED (INCLUDING THE TEMPORARY LINEAR HEAT DETECTION) AND ALL SURFACES RESTORED TO NEW CONDITION. EMBEDDED CONDUIT MAY REMAIN (WITH CONDUCTORS PULLED AS PART OF THIS WORK SCOPE). WITH THE EXCEPTION OF RACEWAYS AND CONDUCTORS, ALL FIRE ALARM EQUIPMENT REMOVED SHALL BE RETURNED TO THE UNIVERSITY. THE EXISTING SPOT HEAT DETECTORS SHALL REMAIN IN SERVICE.

SPECIAL HEAT DETECTION NOTES

1. THE LOCATIONS OF THE NEW SPOT HEAT DETECTORS SHOWN ARE BASED UPON A 09/02/09 WALK THROUGH. THE LOCATIONS AND APPROXIMATE NUMBER OF NEW SPOT HEAT DETECTORS SHALL BE CONFIRMED SO THAT AREA WIDE COVERAGE IS PROVIDED FOR THE BAY POCKETS FORMED BY BEAMS.

"AS BUILT" NOTE:  
REFER TO SIEMENS INDUSTRY (INSTALLATION CONTRACTOR) "AS BUILT" PLANS AND DETAILS FOR FINAL LAYOUT OF THE FIRE ALARM SYSTEMS.